

Title (en)
RADIATION FILTER ELEMENT AND MANUFACTURING PROCESSES THEREFORE

Title (de)
STRAHLUNGSFILTERELEMENT UND HERSTELLUNGSPROZESS DAFÜR

Title (fr)
ELEMENT FILTRE DE RAYONNEMENT ET PROCEDES DE FABRICATION DUDIT FILTRE

Publication
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Application
EP 03736717 A 20030515

Priority

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- US 44052503 P 20030116

Abstract (en)
[origin: WO03098351A1] A process for making a radiation filter element comprises the steps of: exposing part of an assemblage to infrared radiation, the assemblage comprising a donor comprising (1) a support capable of transmitting infrared light, and (2) a transferable layer comprising a transferable material and an infrared-absorbing dye, the transferable layer of the donor being in contact with a receiver to provide an exposed assemblage comprising an exposed part of the transferable layer and an unexposed part of the transferable layer; separating the receiver and the support of the exposed assemblage to obtain an imaged receiver and a spent donor, wherein the imaged receiver comprises the receiver, a transferred portion of the transferable material and a transferred portion of the infrared-absorbing dye, said transferred portion of the IR dye having a color and the spent donor comprises the support and a retained portion of the transferable layer; and heating the transferred portion of the transferable material and the transferred portion of the infrared-absorbing dye at a temperature ranging from about 100 degrees Celsius to about 350 degrees Celsius for a period of time sufficient to thermally decolorize 50% to 100% of the transferred portion of the infrared-absorbing dye, the heating being in the absence of a thermal bleaching agent to provide a radiation filter element suitable for use in a liquid crystal display. Preferably color filter elements of this invention are used in liquid crystal display devices.

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G03F 7/34

IPC 8 full level
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Citation (search report)

- [X] WO 0187634 A2 20011122 - DU PONT [US], et al
- [A] EP 1092561 A2 20010418 - DU PONT [US]
- [A] GB 2083726 A 19820324 - MINNESOTA MINING & MFG
- See references of WO 03098351A1

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DE FR GB IT

DOCDB simple family (publication)
WO 03098351 A1 20031127; AU 2003237251 A1 20031202; DE 60328482 D1 20090903; EP 1506456 A1 20050216; EP 1506456 A4 20060614; EP 1506456 B1 20090722; JP 2005526284 A 20050902; JP 4310270 B2 20090805; KR 100978185 B1 20100825; KR 20050012240 A 20050131; US 2005214659 A1 20050929; US 7018751 B2 20060328

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